Table of Measurements-Continued.


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## By G. BROWN GOODE and TARLETON II. BEAN.

The Smithsonian Institntion has received from Mr. Silas Stearns, of the Pensacola Ice Company, Pensacola, Fla., a fish new to the faum of the United States, and believed to be new to seience. This fish was taken Mareh 18, 1878, on the Snapper Bank, off Pensacola, in 35 fathoms of water. It was packed in ice, and arrived in good condition, March 2 , at the National Museum, where it was cast in plaster, and sketched by Mr. Shindler. It is now a fine alcoholic specimen, No. 20,971 of the Fish Catalogue.

Caulolatilus microps is related to the Brazilian form Canlolatilus chrysops (Cuvier and Valencieunes) Gill, and the Cuban form C'aulolatilus cyunops Poey, described in 1867.* Of the former, two specimens ouly

[^0]are recorded: one, the type of the original description, one foot long. collected on the coast of Brazil by M. Gay, and probably now in the Museum in Paris; a second in the British Museum, a stutted specimen, purporting to have been collected in the West Indies. Of loey's $C$. cyanops the National Museum possesses a fine specimen (Cat. No. tion), 15 inches long, collected and presented by Professor Pocy.

The Pensacola specimen, now under consideration, is two feet and three inches long, weighing nine pounds and one-quarter. Its color has faded, but a yellow blotch is still visible noder the eye, similar to that mentioned in C'. chrysops. A dark bloteh is visible in and above the axilla of the pectoral.

The following diagnosis is believed to characterize the pecularities of the new form. It is aceompanied by a table showing the detailed measurements of C. cyanops and C. microps, and another showing the relations of C'. chrysops as far as they can be gleaned from the publishet descriptions.

Caulclatilus microps, $s^{2}$. nor., Goode and Bean.
Diagnosis.-Height of body coutained slightly more than three and one-half times in its length, its width seren times, the species being higher and more robnst than C'. chrysops and C. cyanops. Length of head equal to height of body, being in same proportion to total leugth as in C. cyanops (thongh less in proportion to height of body), and longer propertioually than in (c. chrysops. Width of interorbital area equal to half the leugth of suont, instead of four-fifths, as in C.cyanops. Length of snout greater than that of maxillary. Diameter of eve contained six times in length of head, insteal of four times, as in C. chrysops, and three and three-fourths times, as in C'. cyanops. Nostrils midway from eye to snout, and separated by a distance equal to diameter of eye. Dentition much as in C. cyanops. Fins all shorter than in ('. cyanops, the anal and soft dorsal two-thirds as high. Caudal fin slightly emargiuate. Pectoral not exteuding to first ray of anal, as in the other species, less than one-fourth of total length. Scales in lateral line 120, in transterse line 48 , being smaller and more namerous than in ('. cyanops.
 of D. V1I, 24 ; A. I, 22 ; C. 19 ; P. I, 15; V. I, 5 , as in ('. cyamops, or 19. VIII, 24; A. II, 22 ; C. 17 ; P. 17 ; V. I, 5 , as in C. chrysops.

Table of Measurcments.


Table showing Compurative Proportions of Atlantic Species of Caulolatilis.

|  | C. chrysops.* | C. cyanops. | O. microps. |
| :---: | :---: | :---: | :---: |
| Height of body in total length. | $4{ }_{4}^{3}$ | $4 \frac{1}{5}$ | $3{ }^{4}$ |
| Width of body in total length. | 10 | $8 \frac{1}{2}$ | 7 |
| Head in total length......... | $4 \frac{1}{2}$ | $3 \frac{1}{7}$ | 34 |
| Interorbital width in total length |  | 12 | $11 \%$ |
| Snont in total length .-........-. - |  | 10 | :17 |
| Upper jaw in total length |  | 10 | $\checkmark$ |
| Snout to orbit in total leugth |  | 9 | 7 |
| Fiye in head | 1 | 3年 | ${ }^{15}$ |
| Nostrils.... | Neareje. | ${ }_{4}^{3}$ distance from | Milway from slount |
| ILe ght of dorsal in total length (of boty) |  | $12 \frac{1}{2}$ | $13\}$ |
| Inal |  |  | Farther from snont than in cyanops, aud two-thirds as high. |
| Caudal |  |  | Less entarginate thata in the other species. |
| Pectoral. | fixtends to first | Extends to first | Does not reach first |
|  | unal ray. | anal ray. | anal ray. |
| Scales in lateral line.. | $110+$ | 108 | 150 , |
| Transverse rows ot stales |  | $35(10+25)$ | $48(13-35)$ |

* These proportionate measurements, as taken from the "Histoint Natmelle dex Poissons", donbtless hiwe reference to extreme length to end of external candal lays. In this genns, however, the differenco this admitted is not extremely large.

April 30, 1878.



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A specimen of Hippocampur, measuring about five inches, was procured by the United States Fish Commission from a mackerel schooner, which had captured it, in company with a school of mackerel, on Saint George's Banks, in Augusts, 1873. It was kept alive tor some days, and an interesting fact was observed with regard to its habits, its tail apparently not being used for prehension. This specimen agrees very closely with $H$. antiquorum as deseribed by Giinther, and is provisionally referred to that species; it does not agree with the description and figure of $I F$. hudsonius, Dekay, a species which has never been accurately defined, aud which may prove identical with $I I$. guttulutus, Cur.
II. antiquorum is, then, an addition to the fana of Eastern North America. The geographical range of the species is very wide; it has been recorded from the English coast, the Mediterranean at Malta and other points, Fernando Do, Japau, and Australia. Several specimens were collected in Bermuda in 1872 and 1877 in company with IL. guttulatus.

A specimen receivel by Storer from Holmes's Hole was, in his first report, referred to $H$. brecirostris, Cuv., which is synonymous, according to Giinther, with H. antiquorum. Storer afterward adopted the name proposed by DeKay, but his deseription and figure refer to a form more nearly resembling that now under consideration.
The following notes were taken from the fresu specimen, the color: while it was living :-
No. 21044, U. S. Nat. Mus, Cat. Fish.


[^0]:    * Repertorio F'ísico-Natural de la Isla de Cuba, i, p. :31s.

